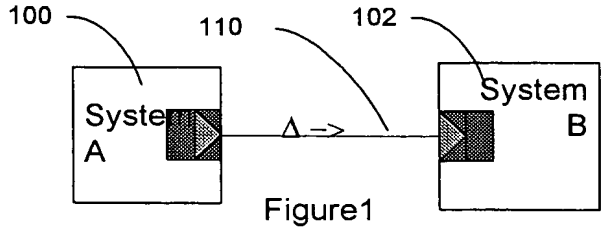
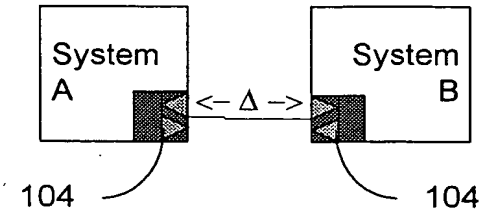


Figure1

Figure 2



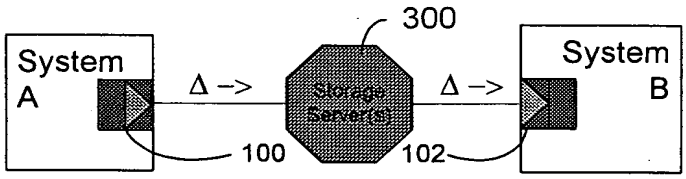


Figure 3

Figure 4

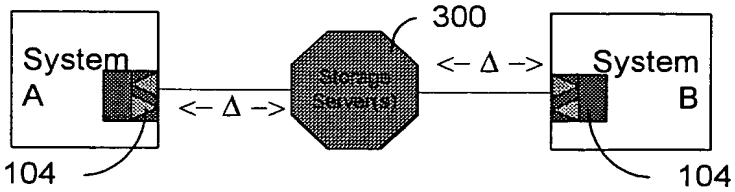


Figure 5

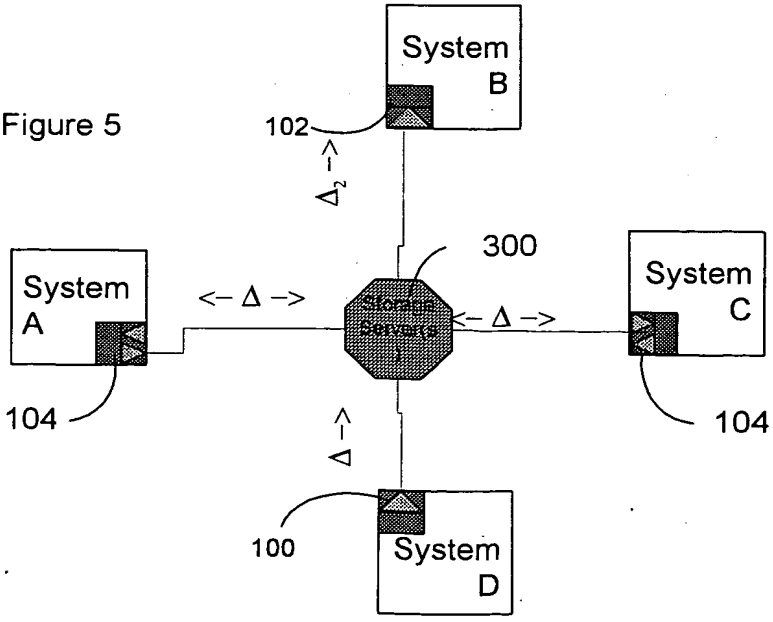


Figure 6

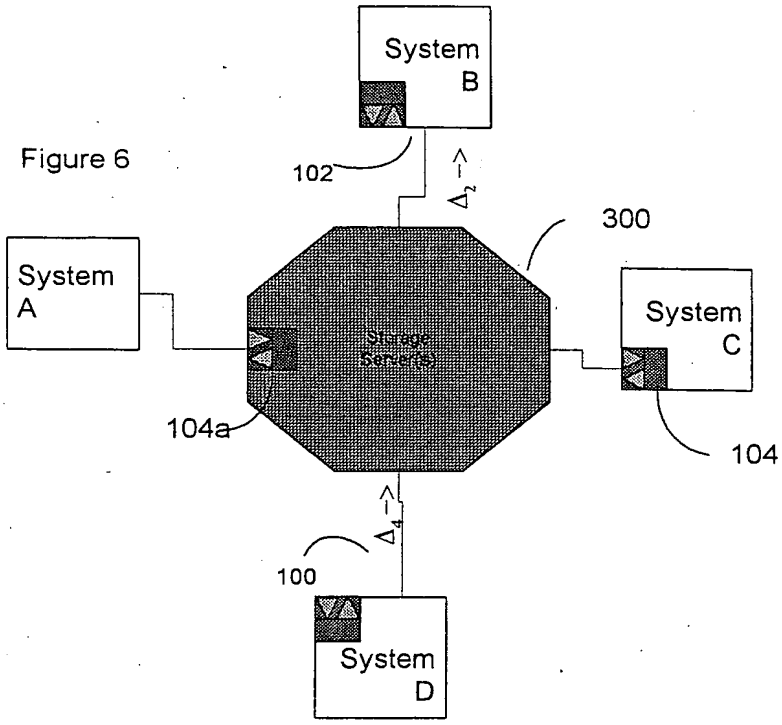


Figure 7

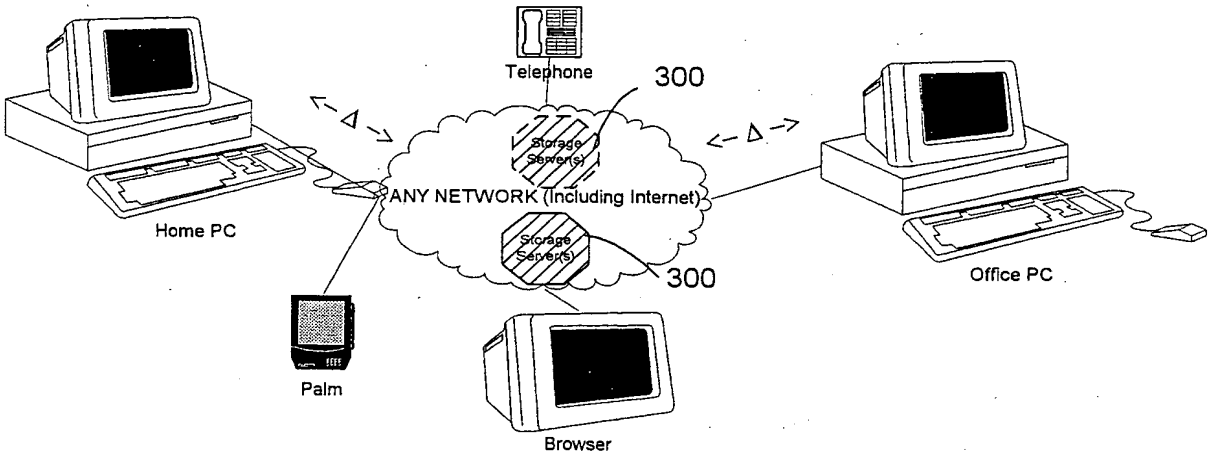


Figure 8

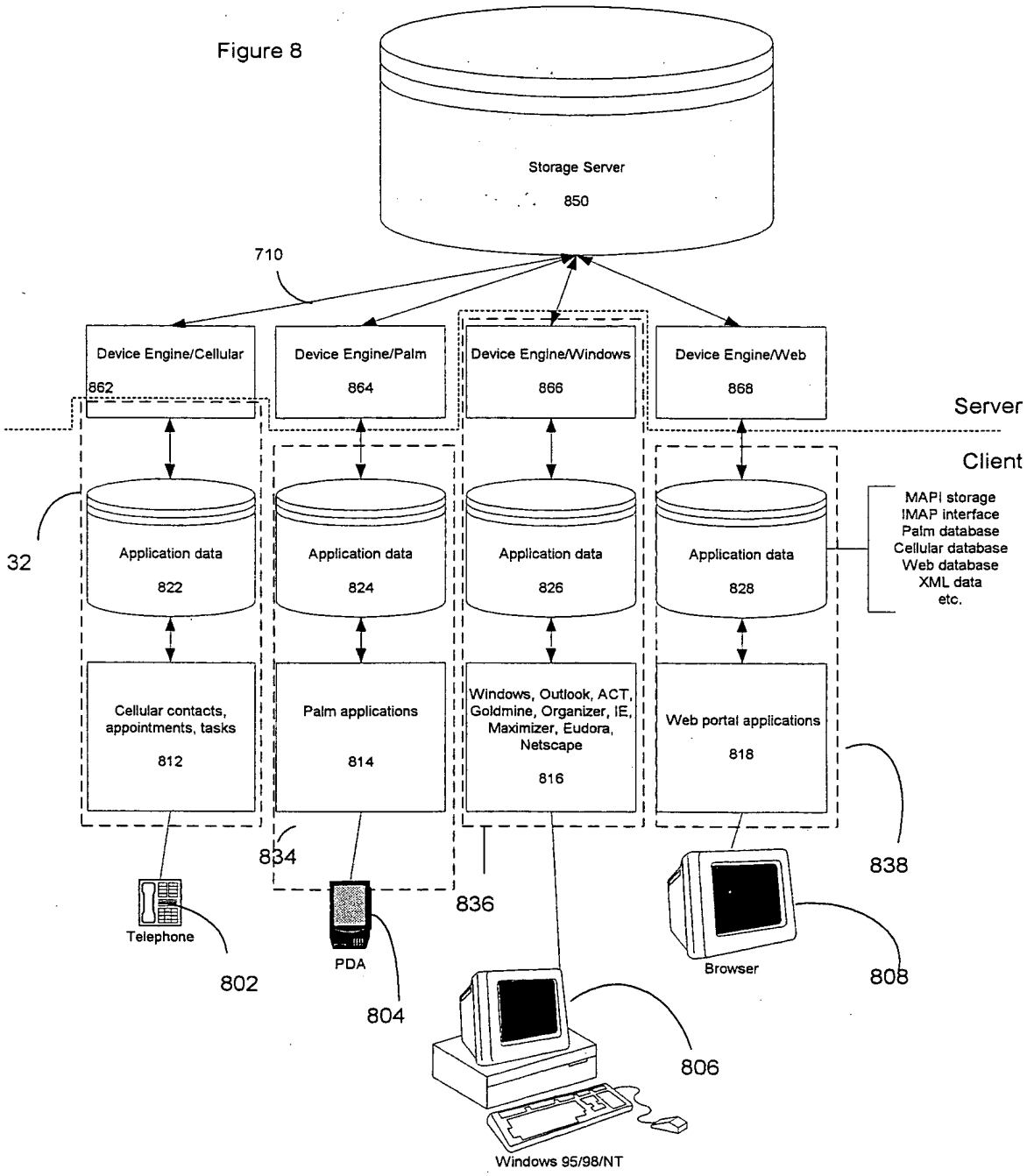

Storage Server
850
710
Device Engine/Cellular
862
Device Engine/Palm
864
Device Engine/Windows
866
Device Engine/Web
868
Server
Client
32
Application data
822
Application data
824
Application data
826
Application data
828
MAPI storage
IMAP interface
Palm database
Cellular database
Web database
XML data
etc.
Cellular contacts, appointments, tasks
812
Palm applications
814
Windows, Outlook, ACT, Goldmine, Organizer, IE, Maximizer, Eudora, Netscape
816
Web portal applications
818
834
836
838
Telephone
802
PDA
804
Browser
808
806
Windows 95/98/NT

Figure 9A
Desktop
Device Engine

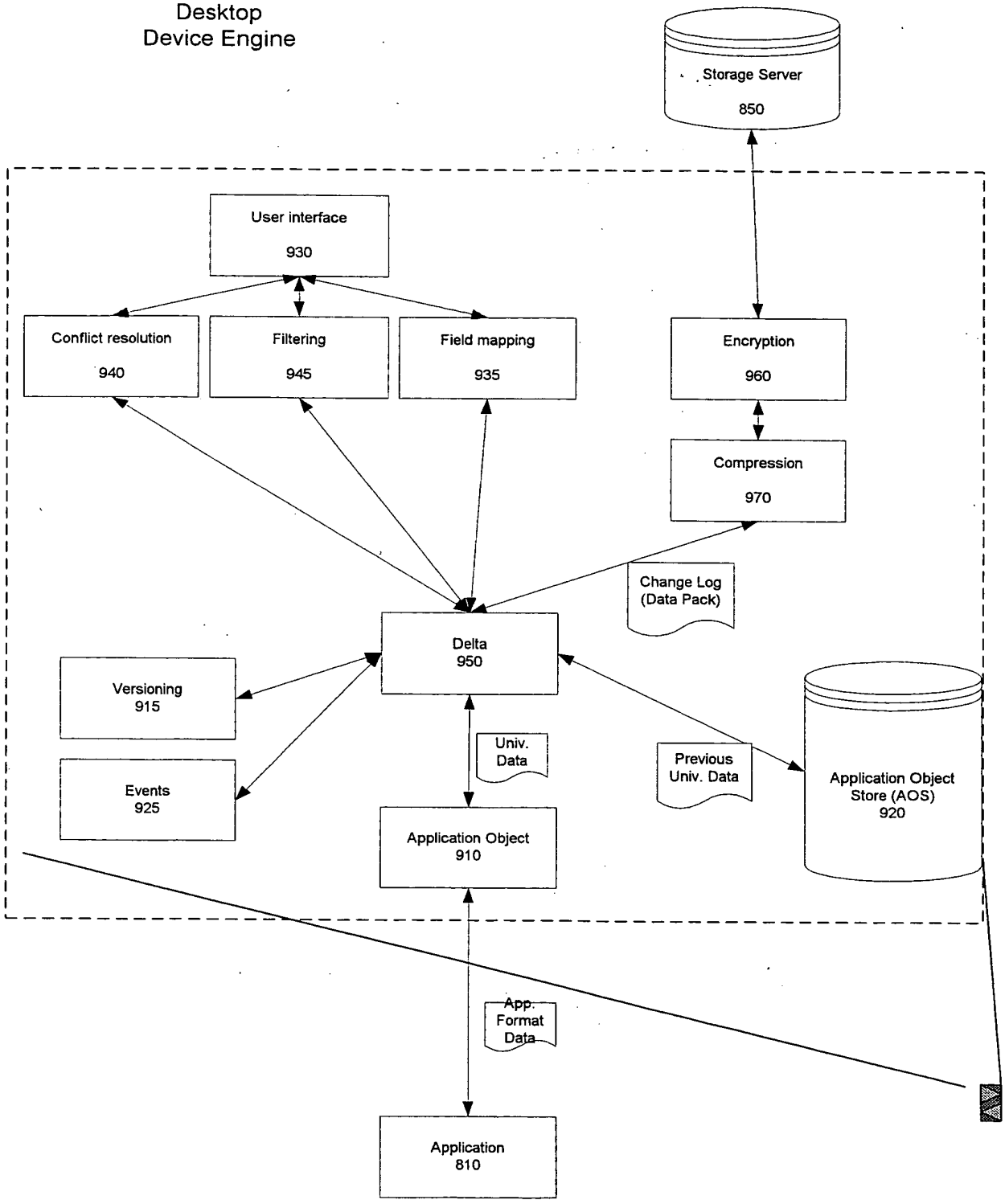
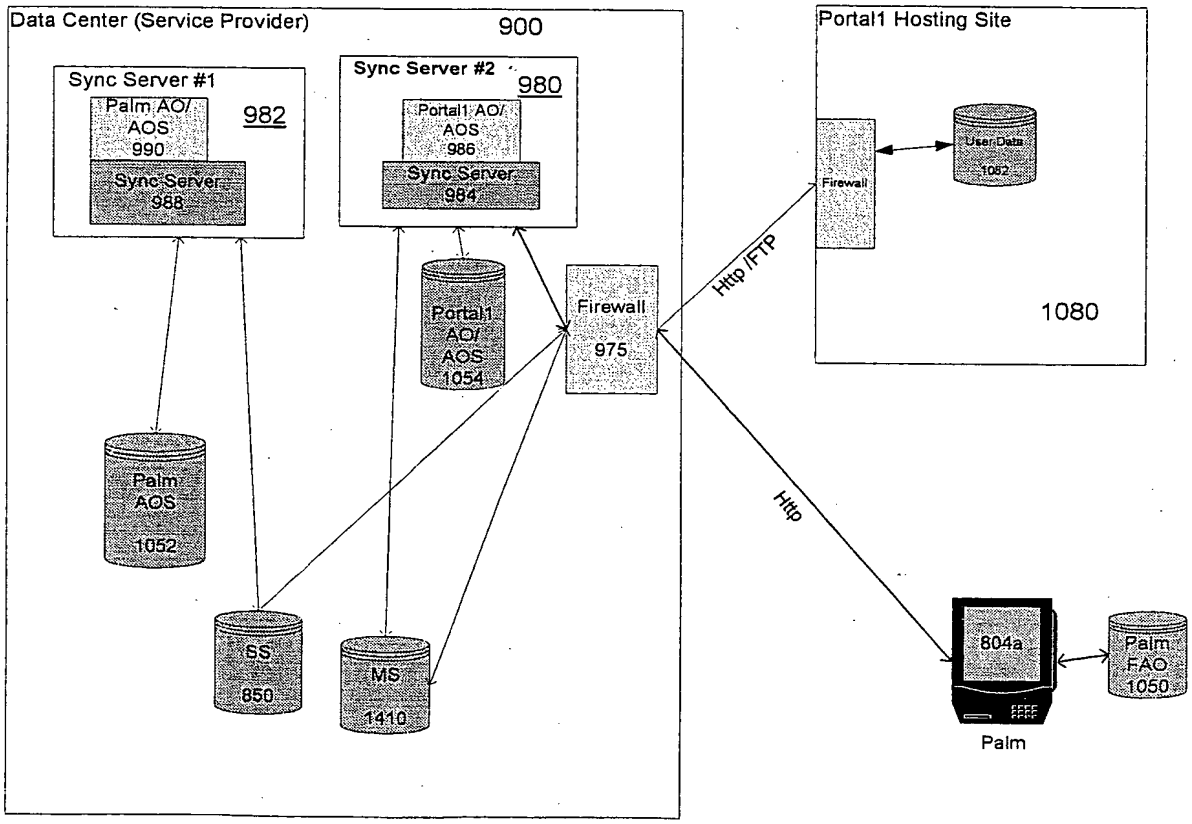


Figure 9B


Data Center (Service Provider)
900
Sync Server #1
Palm AO/ AOS 990
982
Sync Server 988
Sync Server #2
980
Portal1 AO/ AOS 986
Sync Server 984
Portal1 AO/ AOS 1054
Firewall 975
Palm AOS 1052
SS 850
MS 1410
Http /FTP
Http
Portal1 Hosting Site
Firewall
User Data 1052
1080
804a
Palm FAO 1050
Palm

Device Engine/Windows

Figure 10

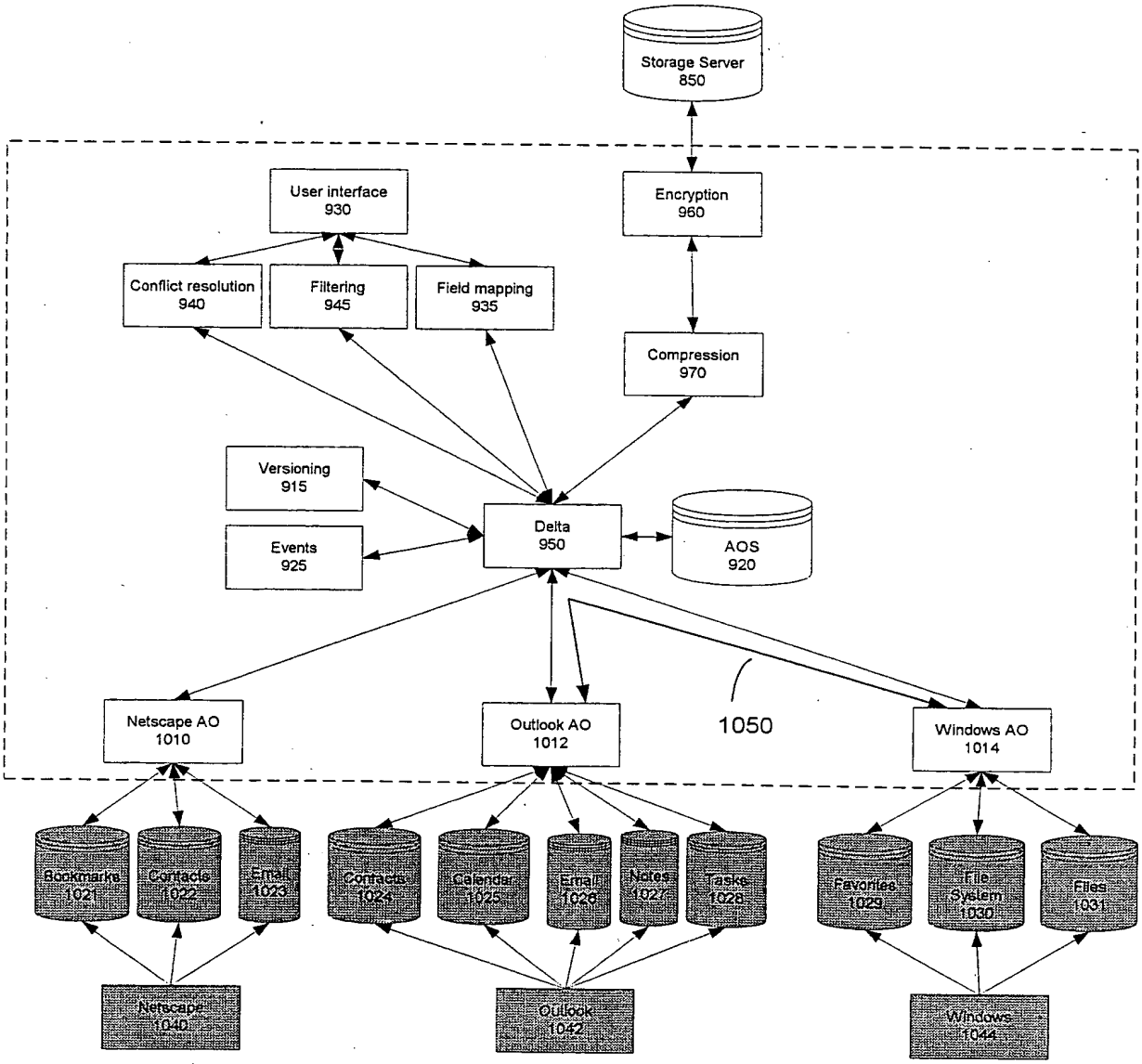


Figure 11

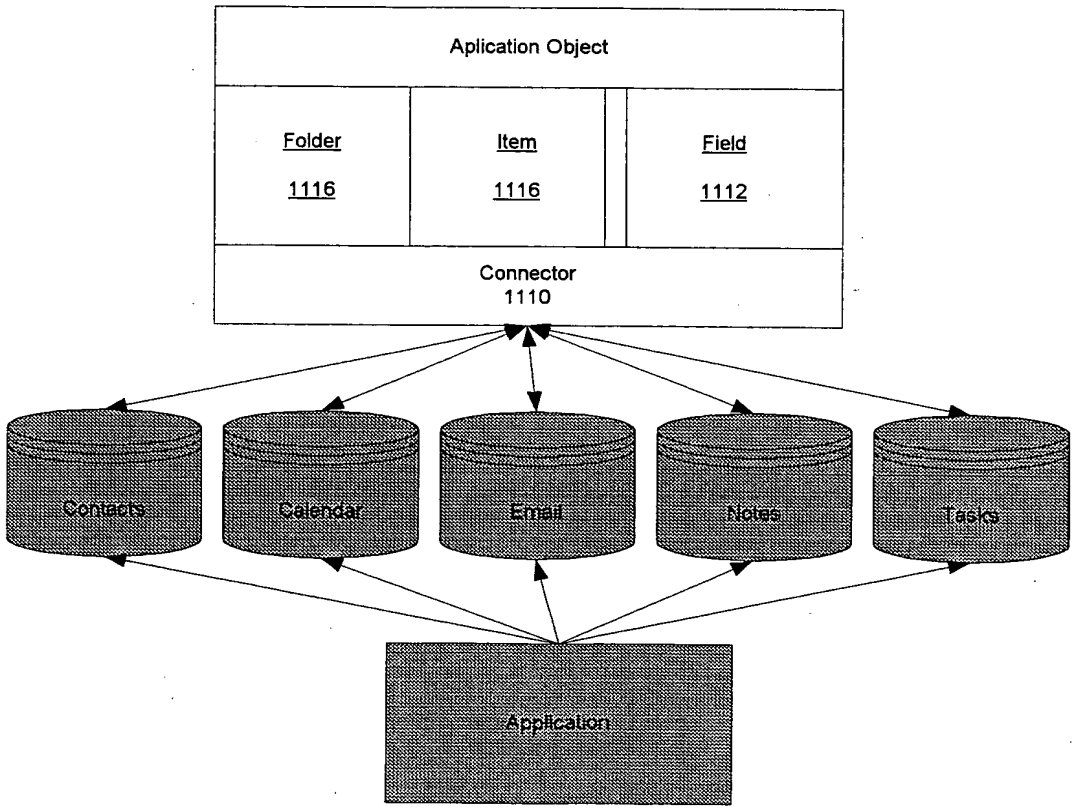

Aplication Object
Folder
1116
Item
1116
Field
1112
Connector
1110
Contacts
Calendar
Email
Notes
Tasks
Application

Figure 12
Object Hierarchy

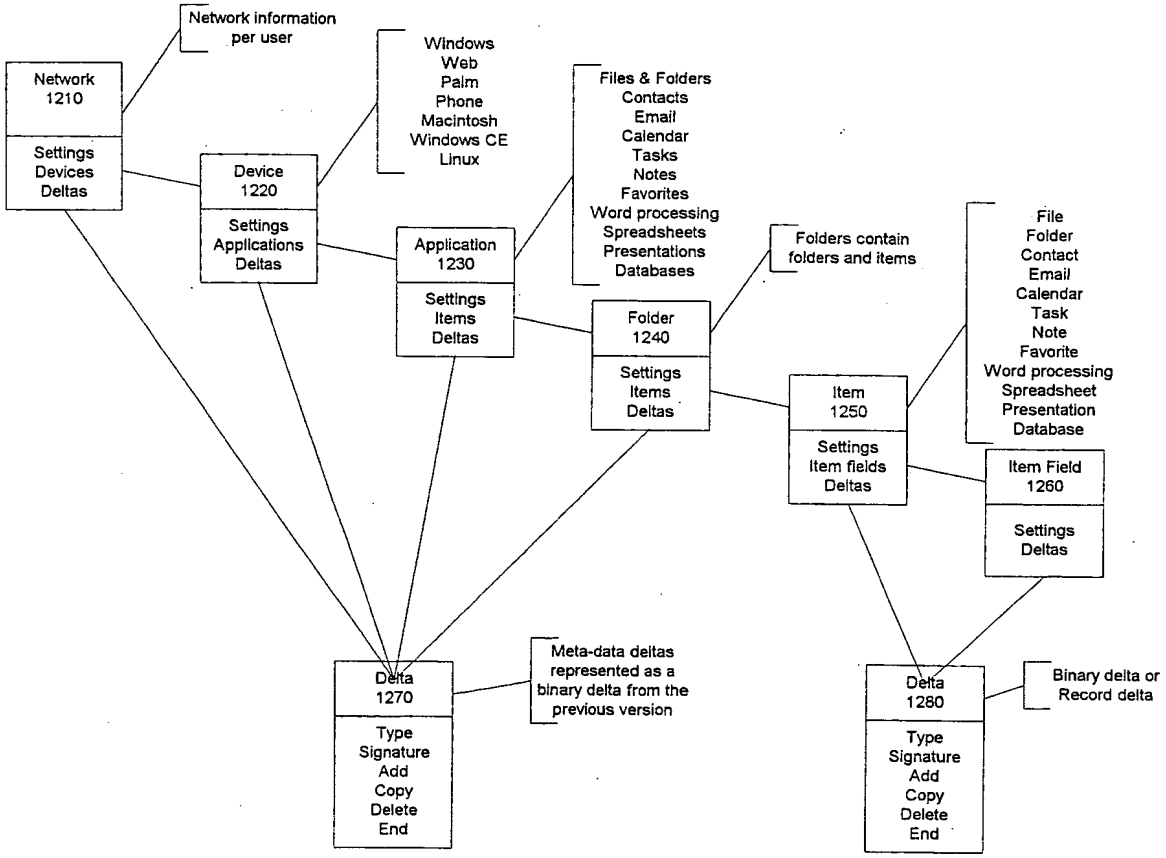


Figure 13

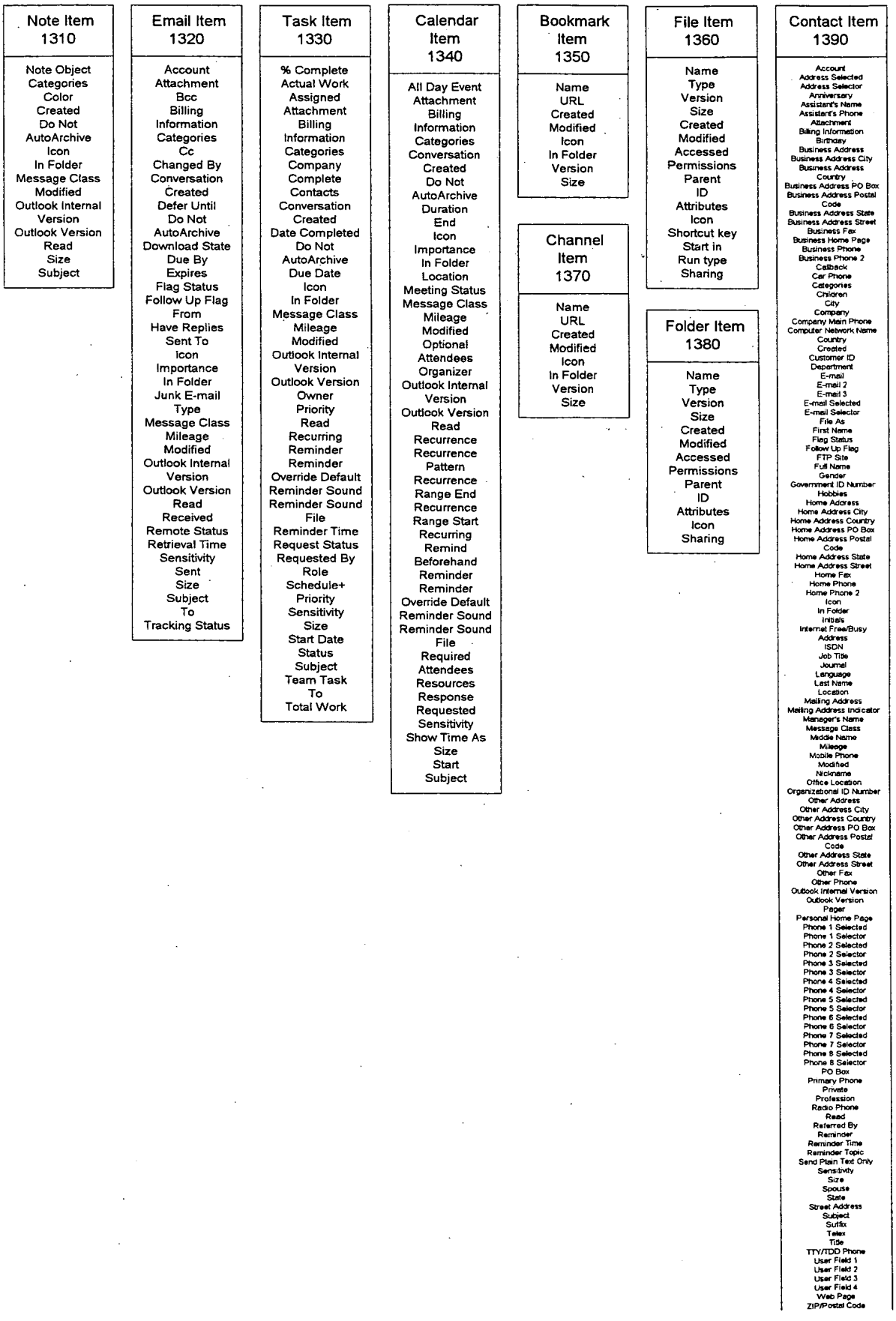

Note Item 1310
Note Object
Categories
Color
Created
Do Not AutoArchive
Icon
In Folder
Message Class
Modified
Outlook Internal Version
Outlook Version
Read
Size
Subject
Email Item 1320
Account
Attachment
Bcc
Billing Information
Categories
Cc
Changed By
Conversation
Created
Defer Until
Do Not AutoArchive
Download State
Due By
Expires
Flag Status
Follow Up Flag
From
Have Replies
Sent To
Icon
Importance
In Folder
Junk E-mail Type
Message Class
Mileage
Modified
Outlook Internal Version
Outlook Version
Read
Received
Remote Status
Retrieval Time
Sensitivity
Sent
Size
Subject
To
Tracking Status
Task Item 1330
% Complete
Actual Work
Assigned
Attachment
Billing Information
Categories
Company
Complete
Contacts
Conversation
Created
Date Completed
Do Not AutoArchive
Due Date
Icon
In Folder
Message Class
Mileage
Modified
Outlook Internal Version
Outlook Version
Owner
Priority
Read
Recurring
Reminder
Reminder Override Default
Reminder Sound
Reminder Sound File
Reminder Time
Request Status
Requested By
Role
Schedule+ Priority
Sensitivity
Size
Start Date
Status
Subject
Team Task
To
Total Work
Calendar Item 1340
All Day Event
Attachment
Billing Information
Categories
Conversation
Created
Do Not AutoArchive
Duration
End
Icon
Importance
In Folder
Location
Meeting Status
Message Class
Mileage
Modified
Optional Attendees
Organizer
Outlook Internal Version
Outlook Version
Read
Recurrence
Recurrence Pattern
Recurrence Range End
Recurrence Range Start
Recurring
Remind Beforehand
Reminder
Reminder Override Default
Reminder Sound
Reminder Sound File
Required Attendees
Resources
Response Requested
Sensitivity
Show Time As
Size
Start
Subject
Bookmark Item 1350
Name
URL
Created
Modified
Icon
In Folder
Version
Size
Channel Item 1370
Name
URL
Created
Modified
Icon
In Folder
Version
Size
File Item 1360
Name
Type
Version
Size
Created
Modified
Accessed
Permissions
Parent ID
Attributes
Icon
Shortcut key
Start in
Run type
Sharing
Folder Item 1380
Name
Type
Version
Size
Created
Modified
Accessed
Permissions
Parent ID
Attributes
Icon
Sharing
Contact Item 1390
Account
Address Selected
Address Selector
Anniversary
Assistant's Name
Assistant's Phone
Attachment
Billing Information
Birthday
Business Address
Business Address City
Business Address Country
Business Address PO Box
Business Address Postal Code
Business Address State
Business Address Street
Business Fax
Business Home Page
Business Phone
Business Phone 2
Callback
Car Phone
Categories
Children
City
Company
Company Main Phone
Computer Network Name
Country
Created
Customer ID
Department
E-mail
E-mail 2
E-mail 3
E-mail Selected
E-mail Selector
File As
First Name
Flag Status
Follow Up Flag
FTP Site
Full Name
Gender
Government ID Number
Hobbies
Home Address
Home Address City
Home Address Country
Home Address PO Box
Home Address Postal Code
Home Address State
Home Address Street
Home Fax
Home Phone
Home Phone 2
Icon
In Folder
Initials
Internet Free/Busy Address
ISDN
Job Title
Journal
Language
Last Name
Location
Mailing Address
Mailing Address Indicator
Manager's Name
Message Class
Middle Name
Mileage
Mobile Phone
Modified
Nickname
Office Location
Organizational ID Number
Other Address
Other Address City
Other Address Country
Other Address PO Box
Other Address Postal Code
Other Address State
Other Address Street
Other Fax
Other Phone
Outlook Internal Version
Outlook Version
Pager
Personal Home Page
Phone 1 Selected
Phone 1 Selector
Phone 2 Selected
Phone 2 Selector
Phone 3 Selected
Phone 3 Selector
Phone 4 Selected
Phone 4 Selector
Phone 5 Selected
Phone 5 Selector
Phone 6 Selected
Phone 6 Selector
Phone 7 Selected
Phone 7 Selector
Phone 8 Selected
Phone 8 Selector
PO Box
Primary Phone
Private
Profession
Radio Phone
Read
Referred By
Reminder
Reminder Time
Reminder Topic
Send Plain Text Only
Sensitivity
Size
Spouse
State
Street Address
Subject
Suffix
Telex
Title
TTY/TDD Phone
User Field 1
User Field 2
User Field 3
User Field 4
Web Page
ZIP/Postal Code

Figure 14

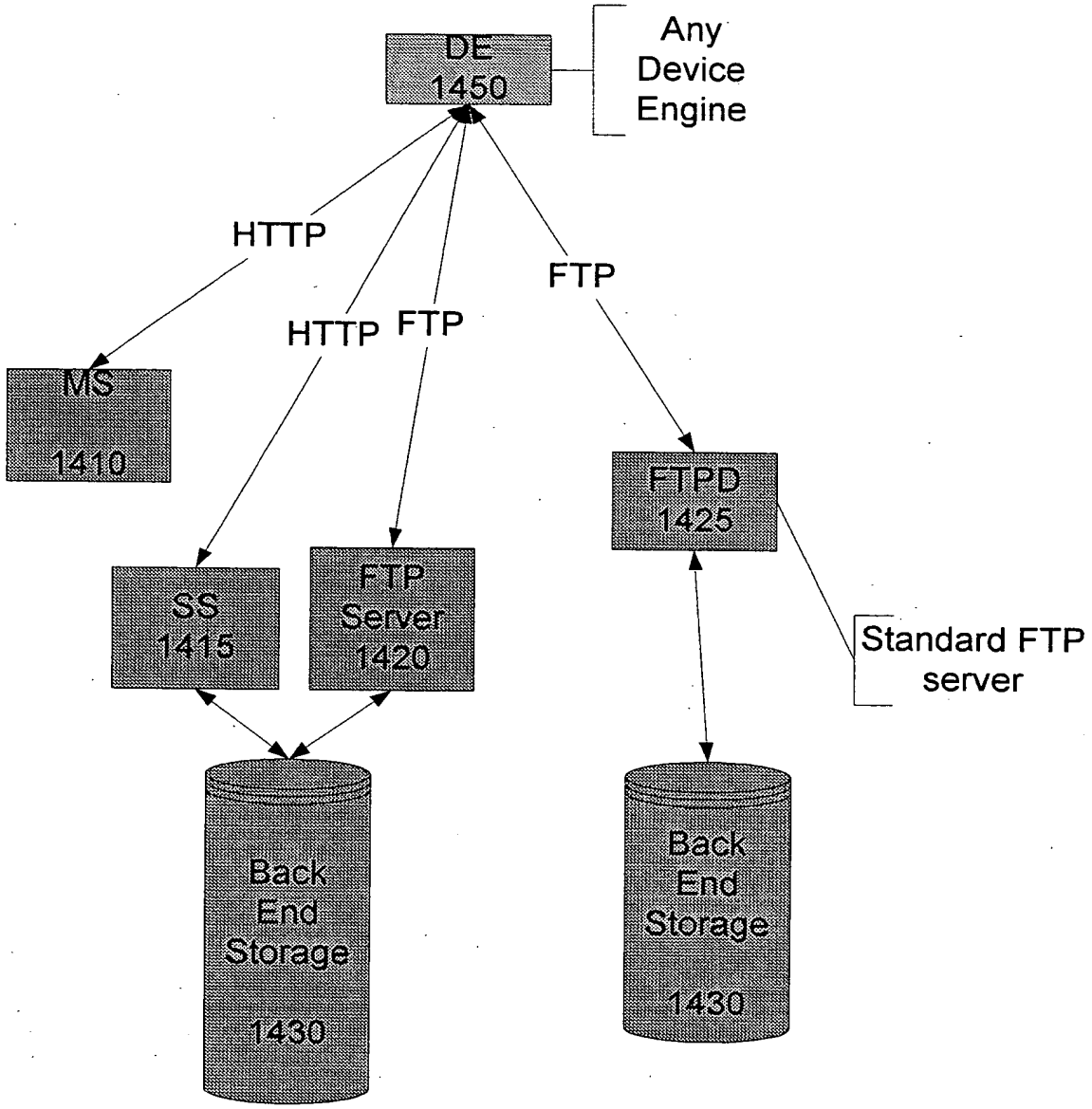

DE
1450
Any
Device
Engine
HTTP
HTTP
FTP
FTP
MS
1410
SS
1415
FTP
Server
1420
FTPD
1425
Standard FTP
server
Back
End
Storage
1430
Back
End
Storage
1430

Figure 15
Pull Synchronization

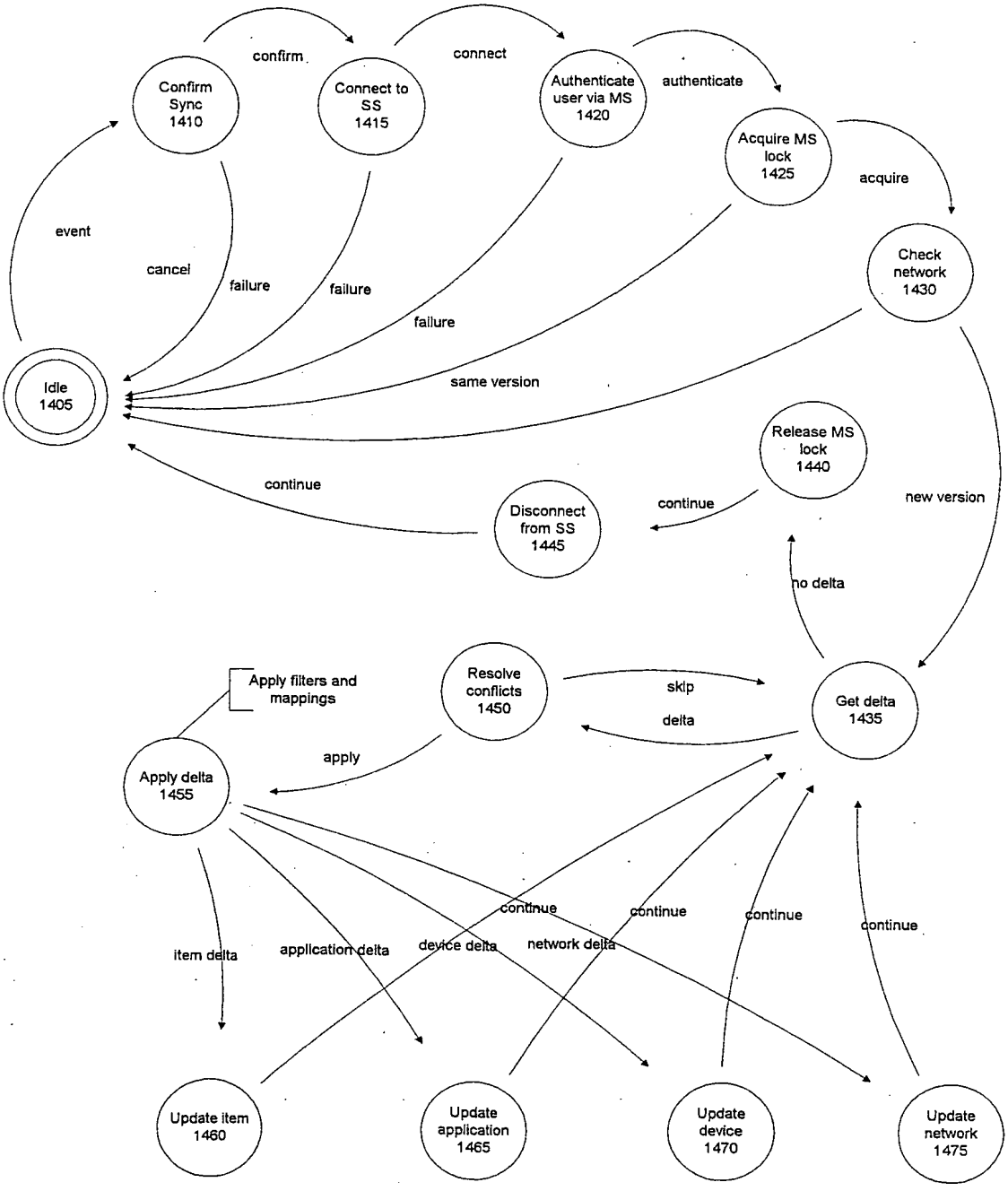


Figure 16
Push Synchronization

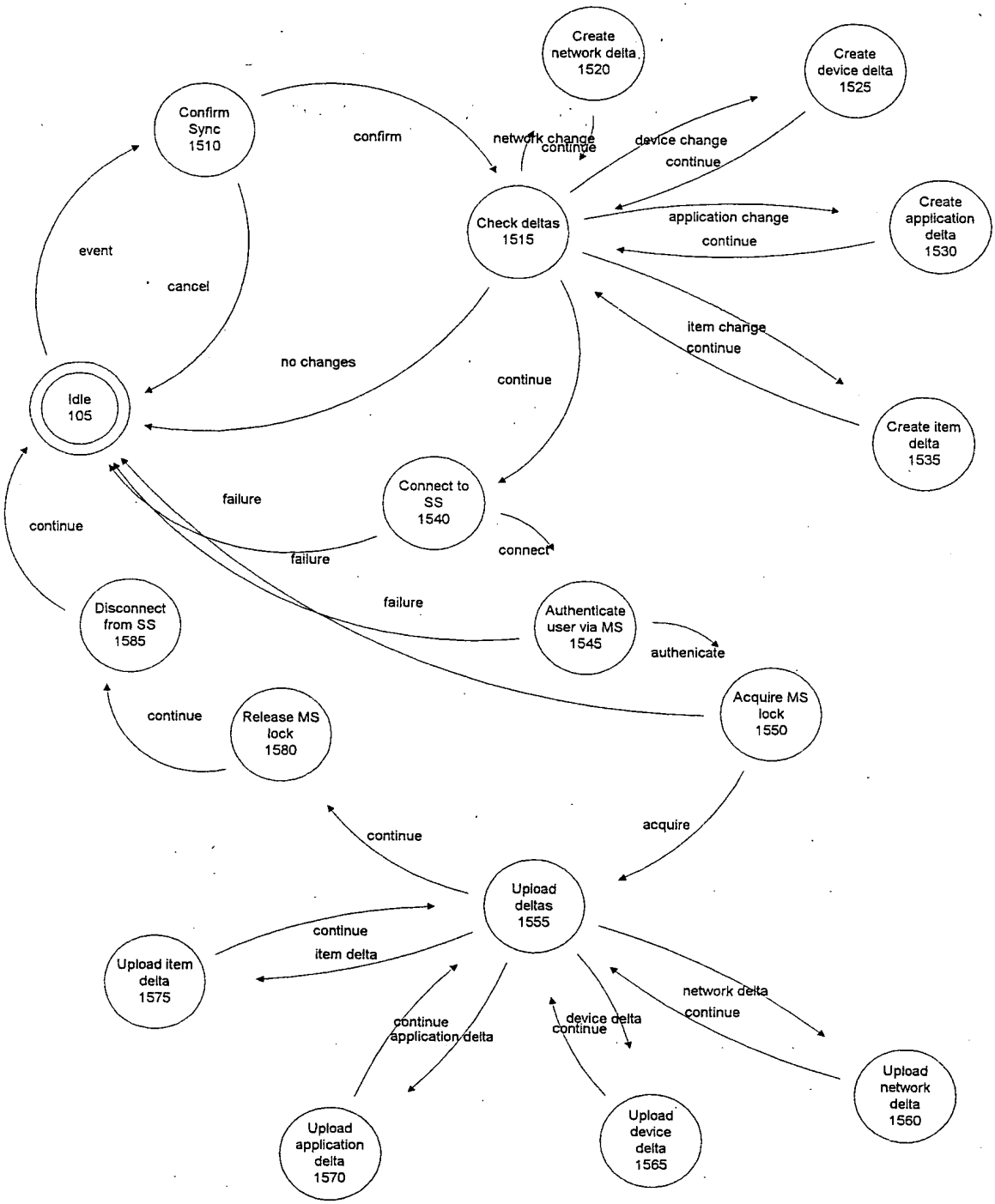
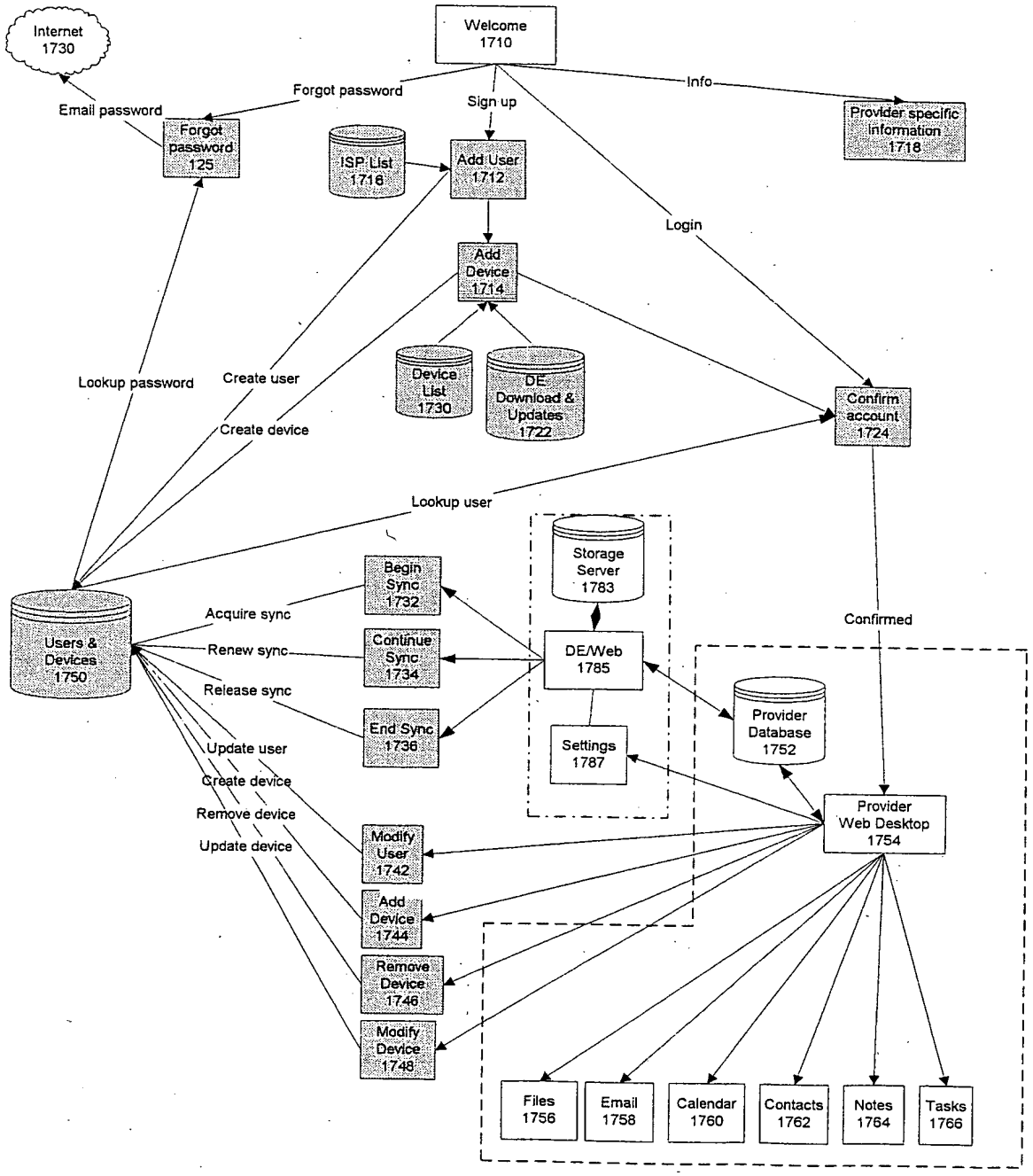


Figure 17


Internet 1730
Welcome 1710
Email password
Forgot password
Sign up
Info
Forgot password 125
ISP List 1716
Add User 1712
Provider specific information 1718
Login
Add Device 1714
Lookup password
Create user
Create device
Device List 1730
DE Download & Updates 1722
Confirm account 1724
Lookup user
Storage Server 1783
Begin Sync 1732
Acquire sync
Users & Devices 1750
Renew sync
Continue Sync 1734
DE/Web 1785
Release sync
End Sync 1736
Settings 1787
Provider Database 1752
Confirmed
Update user
Create device
Remove device
Update device
Provider Web Desktop 1754
Modify User 1742
Add Device 1744
Remove Device 1746
Modify Device 1748
Files 1756
Email 1758
Calendar 1760
Contacts 1762
Notes 1764
Tasks 1766